



Certificate of Calibration

Beaverton Service Center

Certificate Number: 217230

Found-Left

Calibration Date: In Tolerance

Calibration Due:

19-Feb-2017

19-Feb-2016

Result Summary: Manufacturer:

Data Type:

Fluke

Certificate Date:

19-Feb-2016

Model:

70 III

Temperature:

23.0 °C

Serial Number:

73950580

Humidity:

31.2 %

Description:

Multimeter

Procedure:

Fluke 70-3: (1 year) CAL VER /5520A

Revision:

1.2

Customer:

STATE OF WASHINGTON

US

City:

SEATTLE

Country:

State:

Purchase Order:

WA

CCS WASHINGTON ST PATROL

RMA:

30973979

This calibration is traceable to the International System of Units (SI), through National Metrology Institutes (NIST, PTB, NRC, NPL, etc.), ratiometric techniques, or natural physical constants. This certificate applies only to the item identified and shall not be reproduced other than in full, without the specific written approval by Fluke Corporation. Calibration certificates without signature are not valid. The calibration has been completed in accordance with Fluke Electronics Corporation Quality System Document 111.0 Revision 118 8/2014 and/or Fluke 17025 Quality Manual QSD 111.41 Revision 005 9/2014.

The Data Type found in this certificate must be interpreted as:

- As Found Calibration data collected before the unit is adjusted and / or repaired.
- Calibration data collected after the unit has been adjusted and I or repaired. As - Left
- Found-Left Calibration data collected without any adjustment and / or repair performed.

This calibration conforms to the requirements of ANSI/NCSL Z540-1-1994 (R2002).

In the attached measurement results, deviation may be expressed with units, Measured Value (MV) - Nominal Value (NV) or as a proportion of the nominal value ((MV-NV)/NV), expressed without units with a scalar multiplier such as % (0.01), or as a ratio of the units (mA/A, μV/V, etc.) Descriptions such as μΑ/Α, μV/V, and others, where used to annotate results or column headings are the preferred replacements for what was historically labeled as "ppm" or parts-per-million and

described the results in that column, unless otherwise noted by units symbols. Where applicable, the expanded uncertainty of measurement at the time of test is given in the following pages. They are calculated in accordance with the method described in the ISO Guide to the Expression of Uncertainty in Measurement (GUM). The reported expanded uncertainty of measurement is stated as the

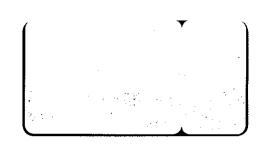
standard uncertainty of measurement multiplied by the coverage factor k, such that the confidence level approximates 95%.

Where applicable, the Test Uncertainty Ratio (TUR) is provided in the following pages. Unless otherwise stated, the TUR for a given measurement result is 4:1 or greater.

Results are reviewed to establish where any measurement results exceeded the manufacturer's specifications.

Measurement results greater than limits of error are indicated by "1".





STEVEN BUHLER Issued By

Fluke Corporation

Telephone

Internet

Revision

2.8

FLUKE.

Certificate Number: 217230 Date of Calibration: 19-Feb-2016

Standards Used

Asset

Description

Cal-Date

Cal-Due

16533

Fluke 5522A Calibrator

17-Nov-2015

17-May-2016

Certificate Number: 217230

Date of Calibration: 19-Feb-2016

Calibration Data

	Nominal Value	Measurement Result	Limits of Error		Test Uncertainty	inty
Parameter			Lower Limit	Upper Limit	Ratio (TUR	UR)
DISPLAY TEST						
Display Segments Illuminated Correctly:		Pass				
RESISTANCE TEST						
320Ohms Range						
0.0 Ohm	0.00	0.0	0.0	0.2		
100.0 Ohm	100.00	99.9	99.3	100.7		
3200Ohms Range						
1000 Ohm	1000.0	999	994	1006		
32kOhms Range						
10.00 kOhm	10.000	10.00	9.94	10.06		
320kOhms Range						
100.0 kOhm	100.00	100.0	99.4	100.6		
3.2MOhms Range						
1.000 MOhm	1.0000	1.000	0.994	1.006		
32MOhms Range						
10.00 MOhm	10.000	10.02	9.79	10.21		
DIODE TEST						
Beeper Audible		Pass				
Beeper OFF		Pass				
DC VOLTAGE TEST						
320mV Range						
300.0 mV	300.00	299.7	299.0	301.0		
DC VOLTAGE TEST						
3.2V Range						
2.700 V	2.7000	2.699	2.691	2.709		
32V Range						
27.00 V	27.000	26.99	26.91	27.09		
320V Range						
270.0 V	270.00	269.9	269.1	270.9		
600V Range						
600 V	600.0	600	597	603		
AC VOLTAGE TEST						
3.2V Range						
2.700 V @ 100 Hz	2.7000	2.700	2.644	2.756		
2.700 V @ 500 Hz	2.7000	2.686	2.644	2.756		
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Beaverton OR 97077 USA

FLUKE.

Certificate Number: 217230

Date of Calibration: 19-Feb-2016

Calibration Data

Parameter	Nominal Value	Measurement Result	Limits of Error		Test Uncertainty	
			Lower Limit	Upper Limit	Ratio (TUR)	
600V Range					· •	
600 V @ 100 Hz	600.0	600	586	614		
600 V @ 1 kHz	600.0	600	586	614		